


[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) | [Purchase History](#) |

Welcome United States Patent and Trademark Office

Advanced Search
[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)**OPTION 1**

Enter keywords or phrases, select fields, and select operators

[Help](#)
 in [All Fields](#)
 in [All Fields](#)
 in [All Fields](#)


» Note: If you use all three search boxes, the entries in the first two boxes take precedence over the entry in the third box.

**OPTION 2**

Enter keywords, phrases, or a Boolean expression

[Help](#)



» Note: You may use the search operators <and> or <or> without the start and end brackets <>.

» Learn more about [Field Codes](#), [Search Examples](#), and [Search Operators](#)

» **Publications**» **Select publications**

- ☒ IEEE Periodicals
- ☒ IET Periodicals
- ☒ AIP/AVS Periodica
- ☒ IEEE Conference I
- ☒ IET Conference Pr
- ☒ IEEE Standards

» **Other Resources** (Available)

- ☒ IEEE Books
- ☒ Educational Courses

» **Standard Status**

(Applies to IEEE Standards)

Status [All](#) » **Select date range**

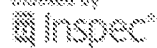
- ☐ Search latest content u
- ☒ From year [All](#) to [Present](#)

» **Display Format**

- ☒ Citation
- ☐ Citatio

» **Organize results**Maximum [100](#) Display [25](#) resSort by [Relevance](#) In [Descending](#)

Indexed by

[Help](#) [Contact Us](#)

© Copyright 2009